User Guide

black
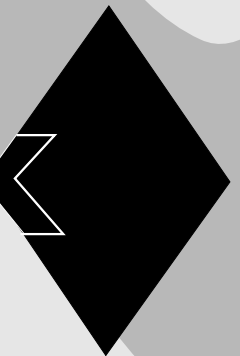## D I A M O N D

MD68HCS
DIGITAL HOME ENTERTAINMENT SYSTEM

MANUFACTURED FOR MITSUBISHI ELECTRIC

Model Name: MD68HCS

This model has the following features:

- DVD/CD-DA/CD-R/CD-RW Playback
- VCD (Video CD)* Playback
- MP3 Playback
- JPEG Playback
- Dolby Prologic II*

IMPORTANT

This user manual contains information about some optional features like, Video CD* Playback (VCD*), RDS* (Radio Data System), optical digital output*. These optional features are available in certain models only.

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*This feature is only available in some models

This feature is only available in some models

ABOUT THIS MANUAL

Instructions in this manual describe the controls on the player. You can also use the controls on the remote if they have the same or similar names as those on the player.

Dear Customers

We would like to thank you for purchasing this DVD / VIDEO CD* / S-VCD / Audio CD / MP3 / JPEG player and with built-in amplifier and integrated tuner.

We strongly recommend that you carefully study the operating instructions before attempting to operate the unit and that you note the listed safety precautions.

SAFETY INFORMATION

CAUTION

**CLASS 1
LASER PRODUCT**

DVD Player is a class 1 laser product. However this product uses a visible laser beam which could cause hazardous radiation exposure.

Be sure to operate the player correctly as instructed.

While this player is plugged to the wall outlet, do not place your eyes close to the opening of the disc tray or other openings to look into the inside of this product for your own safety.

Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure. Do not open covers and do not attempt to repair any damaged parts. Refer product to a service

technician or qualified professional for any necessary repair.

WARNING

To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.

To reduce the risk of fire or electric shock, and any interference, use the recommended accessories only.

W A R N I N G
RISK OF ELECTRIC SHOCK
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock of persons.
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

This feature is only available in some models

SAFETY PRECAUTIONS

Power Source:

The unit should be operated only from a 220-240V~ 50 Hz outlet. Please do not open the cover by yourself. There is high voltage in the set, which will endanger your life. Please contact local service agent for help and advice. Repairs to be carried out by a qualified technician only.

• The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.

• If you are not going to use the player for a long time, be sure to disconnect the player from the wall outlet.

Power Cord:

Do not place the unit, a piece of furniture, etc., on the power cord (mains lead), or pinch the cord. Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Never make a knot in the cord or tie it with other cords. The power cords should be routed in such a way that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask closest service agent for help. When the AC power cord need to be changed, it should be done at a qualified service shop only.

Choice of Location:

• Please do not place the set in a place subject to direct sun light, excessive dust or mechanical shock or in a location near heat sources.

• The set should be placed on a solid and safe base. Do not place the player on a soft surface such as a rug that might block the ventilation holes on the bottom.

• A location should not be selected such as a room with high humidity, as the condensation, arising in the kitchen for example, may cause malfunction or damage the set.

• Heating or other thermal radiation under the set also may cause malfunction or damage the set.

• The hot air, which arises during the operation, should be ventilated with sufficient air circulation. Please do not put the set into closed areas and do not cover it.

• Please avoid the contact of the set with water or humidity. Do not put into operation near bath, swimming pools.

• Take care to provide a good air circulation. Place the player in a location with adequate ventilation to prevent heat build-up in the player.

Should any solid object or liquid fall into the cabinet, unplug the player and have it checked by qualified personnel before operating it any further.

GENERAL PROPERTIES

1) DVD/VCD*/S-VCD/CD/MP3/JPEG playback

2) NTSC/PAL playback (according to disc content)

3) User-friendly multilanguage OSD menu control

4) Vacuum Fluorescent Display (VFD)

5) Dolby Digital, DTS, MPEG Multichannel, LPCM audio via analog audio outputs (5.1 and left, right)

6) 60 (40 FM / 20 AM) preset radio stations

7) Built in digital amplifier - 20 W RMS output for surround speakers and 35 W RMS output for subwoofer

8) Test tone for easy speaker setup (Remote Control + Setup Menu)

9) Equalizer for DVD/VCD*/MP3/Radio (7 preset setting)

10) Total and seperate volume control for each speakers & mute function

11) Multiple Aspect Ratio support (16:9 Widescreen, 4:3 Letterbox, 4:3 PAN & SCAN)

12) Multi-Audio (up to 8) support (According to disc content)

13) Multi-Subtitle (up to 32) support (According to disc content)

14) Multi-Angle (up to 9) support (According to disc content)

15) 8 level parental control

16) Fast forward and rewind in 5 different speeds. (2x, 4x, 8x, 16x, 32x)

17) Smooth and seamless playback in 2x speed.

18) Slow motion playback in 4 different speeds. (1/2x, 1/4x, 1/8x, 1/16x forward and backward)

19) Frame by frame forward and backward playback (Step Forward & Step Backward)

20) Time Search

21) Repeat

22) A →B repeat

23) Program function for Audio CD/MP3 CD

24) Scart input for DVB/VCR/DVD (optional)

25) AV input for DVB/VCR/DVD (optional)

26) Digital Optic Output (optional)

27) Scart output

28) Video output

29) S-Video output

30) Analog audio outputs & (left, right)

31) 5.1 channel speaker outputs

This feature is only available in some models

DISC TYPES COMPATIBLE WITH THIS UNIT

This player can play the following discs.

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD DVD VIDEO™	Audio + Video	12 cm	Single-sided; 240 min. Double-sided; 480 min.	• DVD contains excellent sound and video due to Dolby Digital and MPEG-2 System.
		8 cm	Single-sided; 80 min. Double-sided; 160 min.	• Various screen and audio functions can be easily selected trough the on screen menu.
VIDEO-CD* COMPACT disc DIGITAL VIDEO	Audio + Video	12 cm	74 min.	• Video with CD sound, VHS quality & MPEG-1 compression technology.
		8 cm	20 min.	
AUDIO-CD COMPACT disc DIGITAL AUDIO	Audio	12 cm	74 min.	• An LP is recorded as an analog signal with more distortion. CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		8 cm	20 min.	
MP3-CD MP3 READABLE	Audio (xxxx.mp3)	12 cm	It depends on MP3 quality.	• MP3 is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
PICTURE-CD JPEG READABLE	Video (still picture)	12 cm	It depends on JPEG quality.	• JPEG is recorded as a Digital Signal with better picture quality over time.

This feature is only available in some models

NOTES ON DISCS

On handling discs:

• To keep the disc clean, handle the disc by its edge. Do not touch the surface.

• Do not stick paper or tape on the disc.

If there is glue (or a similar substance) on the disc, remove the glue completely before using the disc.
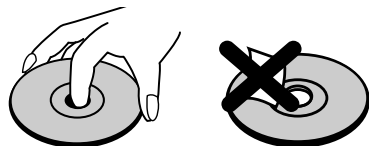
• Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as there can be considerable rise in temperature inside the car.

After playing, store the disc in its case.

On cleaning:

Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.
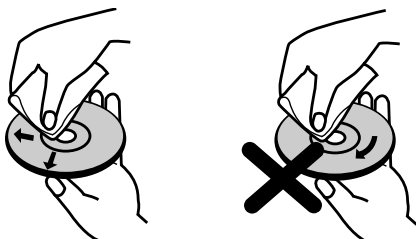
Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

Discs that should not be used:

Only the discs including the marks shown on page 7 can be played.

Note, however, that discs with special shapes (heart-shaped discs, hexagonal discs, etc.) cannot be played. Do not attempt to play such discs, as they may damage the player.

NOTE:

Do not use record spray or antistatic. Also do not use volatile chemicals such as benzene or thinner.

FITTING BATTERIES IN YOUR REMOTE CONTROL

First open the battery cover on the underside of the remote control. Fit both batteries 1.5Volt (R03/AAA) referring to the imprinted symbols (+/-) in the battery case and put on the battery cover again.

While using the remote control, direct it towards the front of the AV receiver. If the remote control does not work or the chosen function could not be made, the batteries are most probably exhausted and they should be replaced as soon as possible. Please use only the leak proof batteries. If you will not be using your remote control for a long time, it is recommended to take out the batteries from your remote control to avoid possible damage from battery leakage and corrosion. Do not leave the remote in an extremely hot or humid place.
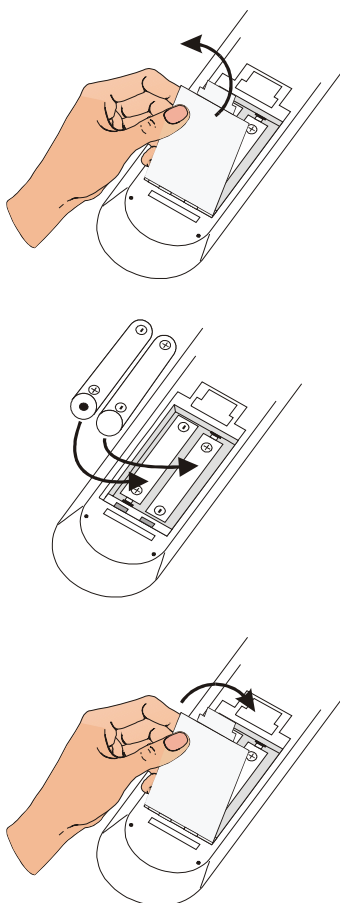
REMOTE CONTROL

1	STANDBY		OPEN/CLOSE	2
29	SHUFFLE		REPEAT	19
18	PROGRAM		A-B	20
3	TITLE		MENU	5
21	DISPLAY		ZOOM	6
4	SETUP		RETURN	7
			SELECT	9
			ARROW BUTTONS	8
10	PLAY/PAUSE		STOP	11
12	SKIP		SEARCH	13
			SPEAKER VOL.	26
			TEST TONE	28
25	VOLUME + /-		SOUND EFFECTS	31
			MUTE	27
14	SUBTITLE		MODE	30
15	AUDIO		SEARCH MODE	17
16	ANGEL			
22	NUMBER BUTTONS			

1	STANDBY		OPEN / CLOSE	2
19	REPEAT		ZOOM	6
20	A-B		DISPLAY	21
18	PROGRAM		SHUFFLE	29
			TEST TONE	28
25	VOLUME + /-		SPEAKER VOL.	26
			SOUND EFFECT	31
			MUTE	27
3	TITLE		MENU	5
9	SELECT		ARROW BUTTONS	8
4	SETUP		RETURN	7
12	SKIP / FRAME		SEARCH / SLOW	13
11	STOP		MODE	30
10	PLAY / PAUSE		SEARCH MODE	17
14	SUBTITLE		ANGLE	16
15	AUDIO		CLEAR	23
22	NUMBER BUTTONS		"+ 10"	24

1. STANDBY button

Using this button player is changed into Standby or normal mode.

2. OPEN/CLOSE button

Opens or closes the disc tray.

3. TITLE button

Displays the title menu on the TV screen.

4. SETUP button

Displays Setup menu on the TV screen.

5. MENU button

Displays the DVD root menu on screen.

6. ZOOM button

Zooms the picture by 2x, 3x, 4x, 1/2x, 1/3x, 1/4x while playing DVD/VIDEO CD*.

7. RETURN button

Press to return to the main page in SETUP menu or to cancel some functions like title/time search, Radio Memory Set etc.

8. Arrow buttons

Move to the items or settings.

In radio mode Left is used to switch AM mode. and Right is used to switch FM mode. Up and Down is used for autotune operation.

9. SELECT button

Executes the items or settings.

In radio mode it used to switch to memory set mode.

10. PLAY/PAUSE button

Plays/pauses the disc. For any DVD title that has a root menu with still picture, this button functions as "button select" (selects highlighted item) in the root menu. Otherwise the disc will prohibit this functioning of "play/pause" button on the root menu, and "🚫" symbol will appear.

11. STOP button

Stops playing disc.

12. SKIP/FRAME button

Press to go to the next chapter or track, or to go back to the preceding chapter or track during playback and next/previous frame during pause.

In radio mode these buttons are used to switch to preset channels.

13.SEARCH/SLOW button

Press to adjust the forward and reverse playback speed x2, x4, x8, x16 and x32 times during playback (rapid advance/reverse) and x32, x16, x8, x2 times during pause (Slow motion).

In radio mode these buttons are used to adjust radio frequency manually.

14. SUBTITLE button

Changes the language of the subtitle while playing a DVD.

15. AUDIO button

Changes the language of the sound while playing a DVD. In radio mode it is used to enable or disable stereo property.

16. ANGLE button

Changes the angles when playing a DVD.

17.SEARCH MODE button

Press to select the unit for search (title, chapter, track, time etc.)

18. PROGRAM button

Press to enter the program menu in stop mode for audio CD and MP3 CD.

19. REPEAT button

Press to execute disk/title/chapter repeat.

20. A→B button

Press to execute the A→B repeat play.

21. DISPLAY button

Displays the current playing status on TV screen or changes the playing time display mode of the disc, title, track etc., on the OSD and front panel display for VCD and CD.

22. Number buttons

Press to enter track/chapter/title/time/channel/etc… numbers directly.

23. **C (Clear) button**

Using this button you can delete the mistyped entries or you can cancel some functions.

24. +10 button

Using this button you can enter the numbers greater than 9.

In radio mode it is used to enter two digits, cursor is appeared on the VFD.

25. Volume +/- buttons

Using this buttons you can adjust speaker volumes.

26. Speaker Vol button

Using this button you can select each speakers volume to be adjusted by Volume +/- buttons.

27. Mute button

Using this button you can mute all the system volume.

28.Test Tone button

Using this button you can apply test tone to each speaker.

29. Shuffle button

Using this button you can shuffle the order of the MP3 playback.
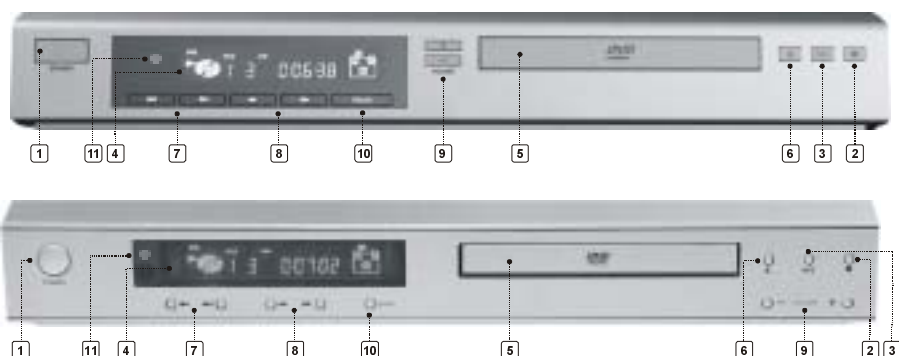
30. MODE button

Using this button you can change the receiver mode between DVD/CD-Radio-AV-SCART*/TV.

31. SOUND EFFECT BUTTON

You can select the type of effect or turn on/off equalizer by pressing this button consecutively.

This feature is only available in some models

FRONT PANEL FUNCTIONS

1. STANDBY button

Turns on and off the standby of the player.

2. STOP button

Stops playing disc.

3. PLAY/PAUSE button

Plays/Pauses the disc. For any DVD title that has a root menu with still picture, this button functions as "button select" (selects highlighted item) in the root menu. Otherwise the disc will prohibit this functioning of "play/pause" button on the root menu, and "⊘" symbol will appear on screen.

4. Front Panel Display (VFD)

Indicates the playing time, title, chapter/track, etc.

5. Disc Tray

Place a disc on the tray.

6. OPEN/CLOSE button

Opens or closes the disc tray.

7. SKIP buttons

Press to go back to the preceding chapter/track or to go to the next chapter/track.

8. SEARCH buttons

Used to search fast forward or backward at 2, 4, 6 or 8 times normal playback speed.

9. VOLUME + /- buttons

Using these buttons you can adjust speaker volumes.

10. MODE button

Using these button you can change the receiver mode between DVD/CD - Radio - SCART* - AV / TV.

11. Standby LED

Indicates Standby and normal operation modes.

RED: Stand-By

FRONT PANEL DISPLAY (VFD)
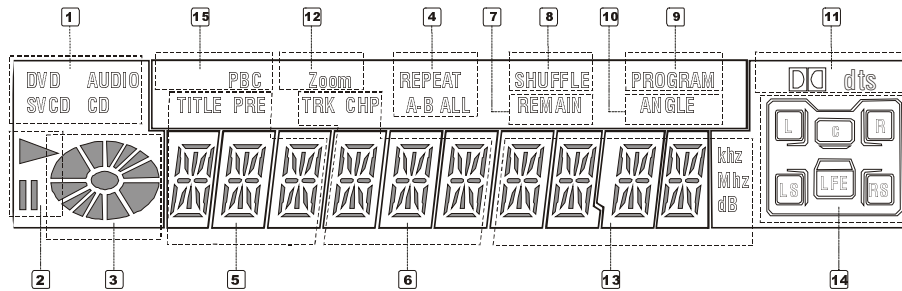
1. Current Disc

2. Play/Pause

3. Playing

4. Repeat mode

5. Title Number

6. Track/ Chapter Number or Preset Radio Channel Info

7. Remain

8. Shuffle

9. Program

10. Angle

11. Dolby Digital –DTS audio

12. Zoom

13. Time or Radio Frequency Info

14. Speaker Outputs

15. PBC

REAR PANEL CONNECTIONS

1. AM/FM ANTENNA connectors (Optional)

Connects to AM and/or FM Antenna .

2. DIGITAL OUT (OPTICAL) connector (Optional)

Connects an audio component using the optical digital connection cord or Outputs 5.1 Channel digital audio

3. DIGITAL (COAXIAL) connector(Optional)

Connects an audio component using the coaxial digital connection cord.

4. AV Input connector (Optional)

Connects audio & video component using Video, Audio Left and Audio Right.

5. AUDIO OUT connectors

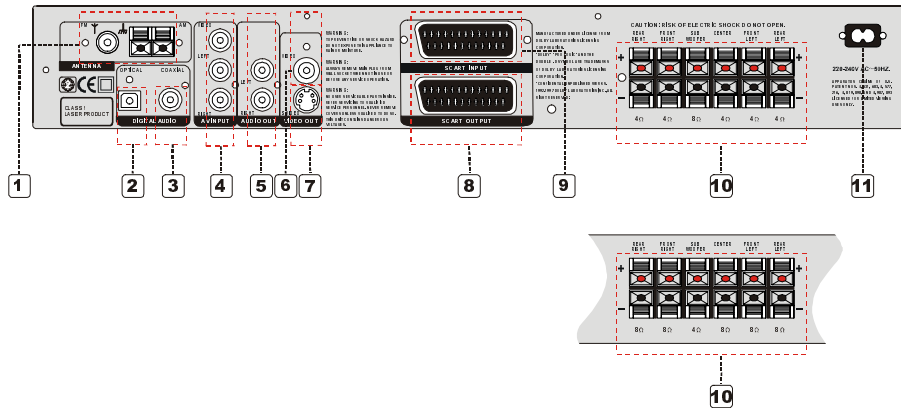Outputs Audio Left, Right Audio signals.

6. VIDEO OUT connector

Outputs a composite video signal.

7. S VIDEO OUT connector

Outputs an S video signal.

8. SCART connector

The standard 21-pin SCART connector outputs Audio and Video signals.

9. SCART Input connector (Optional)

 A standard 21 pin SCART connects Audio and Video signals.

10. SPEAKER connectors

Outputs Amplified Audio signals to the speakers.

11. AC Power Cord

CONNECTION OF YOUR AV RECEIVER WITH TV

Be sure to turn off the standby of each component before making the connections.
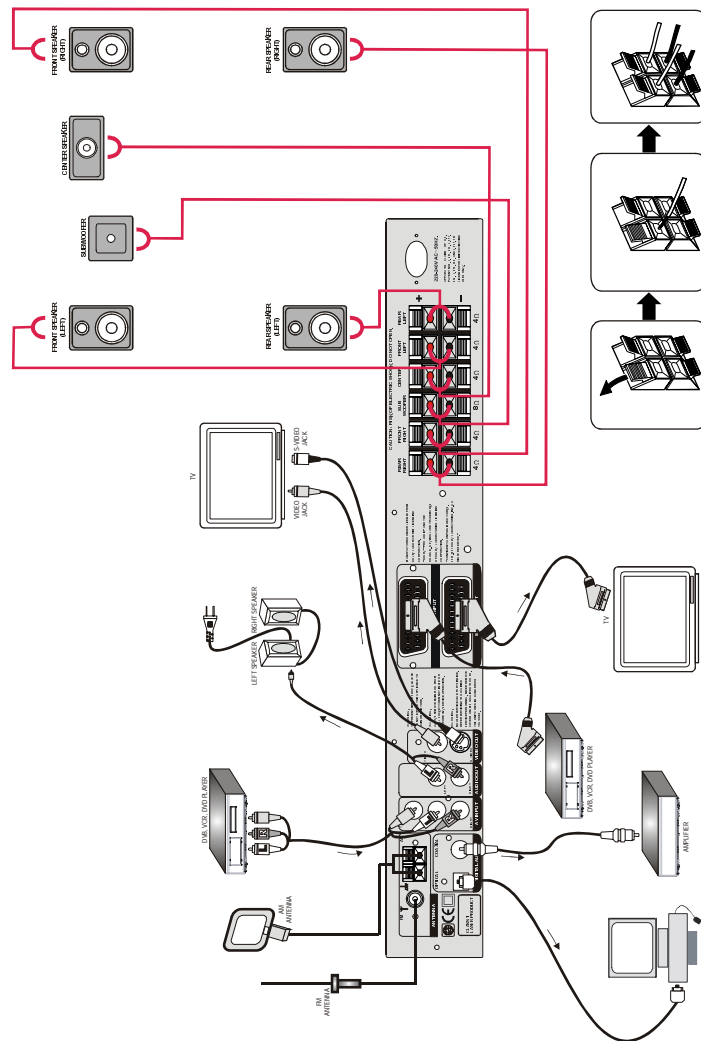
SCART SOCKET

Connecting your DVD player to TV via scart socket with a scart cable gives you the best picture performance. If your DVD player will not be connected to a hi-fi set or A/V amplifier to hear better sound, scart is enough for both audio & video connections.

DVB, VCR, DVD PLAYER

TV
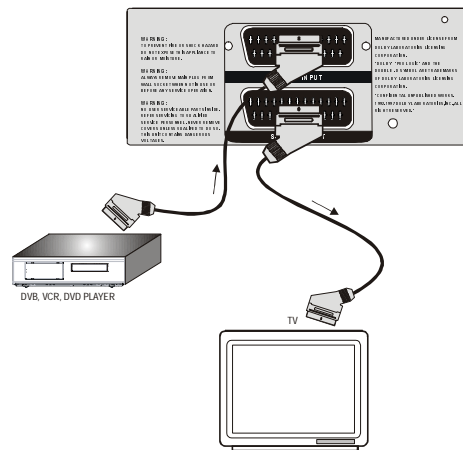
VIDEO & AUDIO OUTPUT SOCKETS

Video (yellow) & audio (Red: right, White: left) output sockets can be used to connect the DVD player to your TV set via cables. To make this connection, your TV set must have Video & audio input connectors. This type of connection is alternative to scart connection. Picture quality is not as good as Scart connection but audio performance is the same.

TV
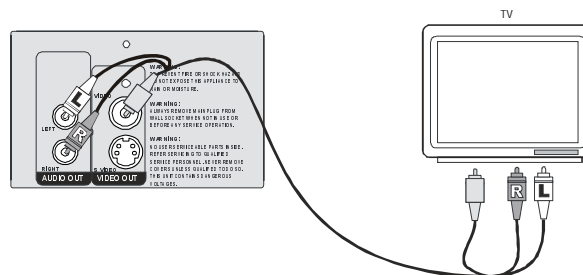
S-VIDEO OUTPUT SOCKETS

S-Video Output socket can be used to have a better picture quality than the video output. Your TV set must have S-video input connector for this type of connection. This socket is used for only video connection. For audio, red & white output sockets must be used. S-video picture quality is not as good as Scart connection.
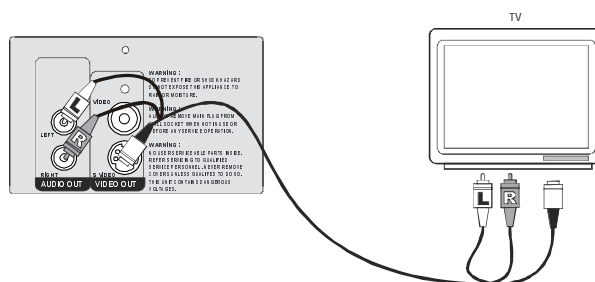
DIGITAL AUDIO OUTPUT SOCKET (OPTICAL) (OPTIONAL)

The unit can be connected via optical dijital audio output to recorder units or computer for recording 5.1 channel surround sound. (optional)
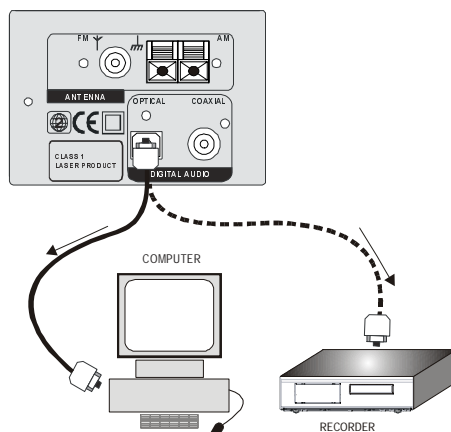
CONNECTION OF YOUR AV RECEIVER'S SPEAKERS

You can connect 5.1 speaker set to the AV receiver as shown in the figure below.
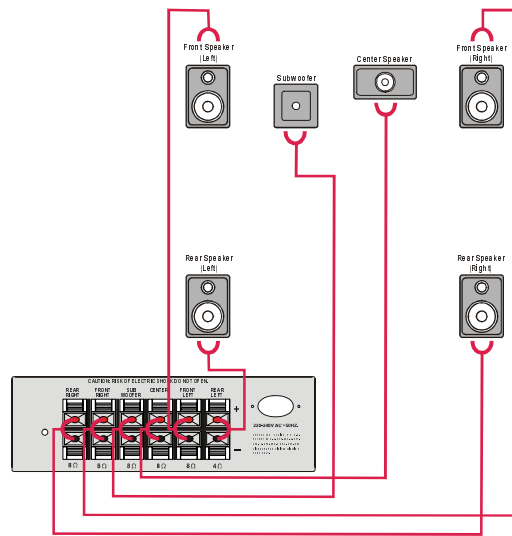
BEST SPEAKER CONNECTION OF YOUR ROOM

To get the best performance form your AV receiver system you have to arrange your speaker set according to your room shape as shown in the figures below.
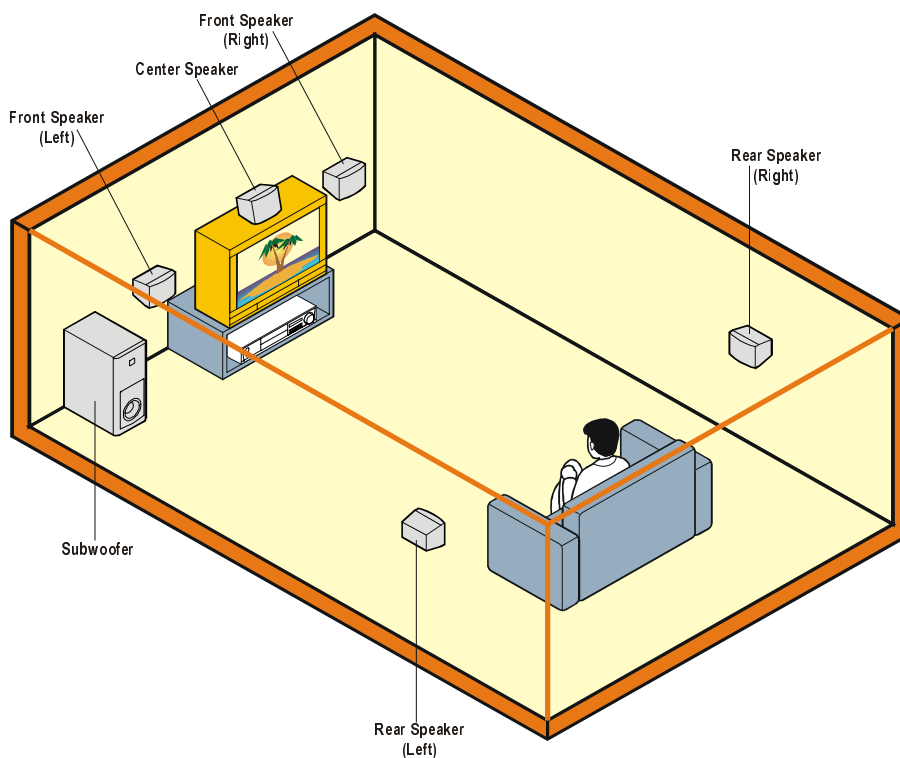
After finishing the speaker connection use "Test Tone" button to test if the speaker connection is right or not. A test tone will be applied to each speaker (Left, Right, Surround Left, Surround Right, Center and Subwoofer). You can press test tone again to stop this function.

CONNECTION OF YOUR AV RECEIVER'S AM/FM ANTENNAS

To get the best radio performance connect the AM and FM antenna as shown in the figure below. (Optional)
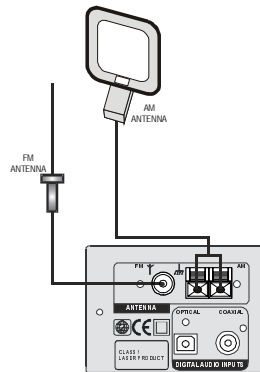
You can switch to Radio Mode by using "MODE" button.

CONNECTION OF YOUR VIDEO SOURCES (AV OR SCART)

You can connect your Video Sources (DVB, VCR, VDP etc) to your AV receiver as shown in the figure below. (Optional)

You can switch to AV or SCART using mode button.

PUTTING INTO OPERATION

After making the necessary connections stated above, plug the power cord to the mains socket. Unit will be in standby mode. Press standby to turn on the unit. Press "MODE" to switch between Disc Player, Radio, AV and SCART/TV.

SELECTING THE MODE

You can select the DVD player, Radio, AV, TV or SCART using the Mode button.

Radio

To get the best performance be sure that AM and FM antenna is connected to the AV receiver. AUDIO VFD grid will be highlighted in radio mode.

Adjusting the frequency :

• Press on the left arrow for AM and Right Arrow for FM. Band name text and MHz, kHz grids will be displayed on the VFD.

• Press Search Forward or Search Backward to increase or decrease the frequency till you reach the desired channel. VFD will display the frequency.

Storing the channel in the Memory :

• After adjusting the desired channel you can store it in the memory . In order to do that ;

• Press on the Select button to enter Memory Set mode. Program grid is displayed on the VFD. You can use Return button to cancel Memory Set mode.
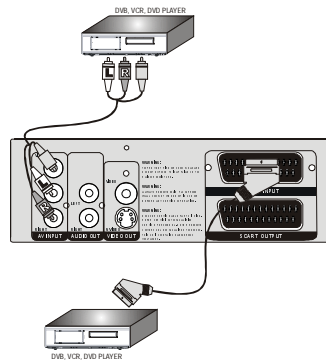
• Press the number button that you want to store this channel. Use 10+ button to enter two digits. VFD will display the preset channel number and its frequency.

You can keep 20 AM channels and 40 FM channels in the memory.

Selecting the preset channels:

• Press on the left arrow for AM and Right Arrow for FM.

• Press the number button of the desired preset channel. VFD will display the preset channel number and its frequency. Use 10+ button to enter two digits.

• Press the Skip Next or Skip Previous button to increase or decrease the preset channel number. VFD will display the preset channel number and its frequency

AV MODE

You can use AV connection only in Normal operation. You can switch to your connected Video Source using mode button. In this connection you can use your Av receiver as an Amplifier. Standby, Mute, Speaker Volume and Mode buttons can be used in this mode .

SCART MODE

In this mode scart audio and video inputs are used. You can use Scart connection in Standby and Normal operation.

IN STANDBY MODE

If there is a Video and Audio signal in AV Input of receiver, this signal will be given as a SCART output automatically. Standby, Open/Close, and Play buttons can be used in this mode.

IN NORMAL MODE

You can switch to your connected Video Source using mode button. In this connection you can use your Av receiver as an Amplifier. Standby, Mute, Speaker Volume and Mode buttons can be used in this mode.

TV MODE

In this mode audio input signals from output scart are amplified and sent to 5.1 speaker outputs.

RADIO DATA SYSTEM (RDS)*

In TUNER mode, use DISPLAY key to change following RDS modes :

• RDS OFF

Frequency information is displayed.

• PROGRAMME SERVICE NAME (PS)

This field is 8 characters long. Generally it is used for static station name. But some stations broadcast longer messages dynamically using this field.

• RADIO TEXT (RT)

This message is at most 64 characters and will scroll from right to left.

• PROGRAMME TYPE (PTY)

There is about 30 different programme types (News, Sport, Pop M, Classic, …)

In this mode use SEARCH MODE key to make PTY SEARCH. Next channel with the same PTY will be switched.

Note :

PTY search is done over prestored PTY information.

• DATE

Date information is updated every one minute if available.

• TIME

Time information is updated every one minute if available.

This feature is only available in some models

Notes :

• RDS is available only in FM Tuner Mode.

• RDS information will be displayed if available.   If you can't get RDS information

> • plase check your antenna performance

> • station may not be sending data

AUDIO FUNCTIONS

Volume +/-

You can increase or decrease the total or each speaker's volume using these buttons.

You can use volume control in all modes.

Speaker Volume

If you want to adjust any of the speakers volume;

• Select the speaker that you want to change the volume setting.

• Use Volume +/- button to adjust the selected speaker volume

You can use speaker volume control in all modes.

Test Tone

If you want to test the operation of speakers press this button to apply test tone to each speaker.

You can use test tone function only in DVD mode.

Mute

You can mute volume by pressing this button. You can cancel mute by pressing it again.

You can use mute control in all modes.

Sound Effect

You can open the Equalizer menu by pressing this button.

Equalizer Menu

You can select the type of effect (standart, classic, jazz, rock, pops, ballad, dance), display the frequency bars or turn on/off equalizer, by pressing this button consecutively.

ATTENTION

ALL OF THE 6 SPEAKERS OF YOUR SYSTEM WILL BE ACTIVE ONLY WHEN THE AUDIO SOURCE AVAILABLE IS 6 CHANNEL ONLY, LIKE DVD DISCS WITH DOLBY DIGITAL 5.1 CHANNEL AUDIO OR DTS 5.1 CHANNEL AUDIO. IF THE AUDIO SOURCE IS 2 CHANNELS, -CD AND DVD DISC WITH STEREO, DOLBY DIGITAL 2.0 AUDIO, OR RADIO-ONLY FRONT LEFT,RIGHT AND SUBWOOFER SPEAKERS WILL BE ACTIVE.

DVD PLAYBACK

Preparations

• Press on the standby button of your audio system if the player has been connected to an audio system.

Basic Play

1. Press on the standby button

2. Press OPEN/CLOSE to open the disc tray.

3. Place a disc onto the tray

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press OPEN/CLOSE.

• The disc tray is automatically closed and play commences.

• A menu may appear on the TV screen after a few moments or the film may start immediately after the introduction of the movie Company. This behaviour depends on the disc content and may change.

NOTE:

Step 5 is available only when a menu is shown after the disc is inserted.

Press ◄ ► ▼ ▲ or the number button(s) to select the preferred menu item.

5. Press SELECT

Play of the selected items now starts. The played item may be a movie, a still picture or another submenu depending on the disc.

NOTE:

When using menus the disc controls the behaviour of the player.

Stopping play and returning to the menu screen (when a menu is available on the disc)

Press **MENU** or **TITLE** button depending on the disc. Play is suspended, and the Disc menu screen is displayed.

After operation

When the unit is not in use, remove the disc and press **STANDBY** to turn off the unit.

NOTE:

• The disc continues to rotate while the menu is displayed even after the player has finished playing a particular item. When no further selections are to be played, be sure to press the STOP button to clear the menu display.

• If the disc is placed upside down (and it is a single sided disc), the VFD display on the player will indicate NO DISC.

For your reference:

• If an action corresponding to a button is prohibited the "🚫" symbol appears.

Stopping Play

Press stop twice.

For your convenience:

• When **STOP** is pressed once, while the play continues, the unit records the point where the play is stopped and if the **PLAY** key is pressed, playback resumes from the point where the **STOP** key was pressed. When the tray is opened or the **STOP** is pressed again, the RESUME function will be cleared.

• To stop the play permanently, press **STOP** twice. When the **STOP** button is pressed for the first time, a message "PRESS PLAY TO CONTINUE" will appear on the screen to remind you if you want to continue the play. To stop the play, press the **STOP** button again or you can press **SELECT** to continue.

RAPID ADVANCE / RAPID REVERSE

Press SEARCH/SLOW (◄◄ Fast reverse or ►► Fast forward) on the remote control or Search ◄◄ or ►► on the main unit during play.

• Normal play is resumed when the **SELECT** button is pressed or **PLAY/PAUSE** button is pressed twice.

• The speed of advance (►► 2x, ►► 4x, ►► 8x, ►► 16x, ►► 32x) or reverse (◄◄ 2x, ◄◄ 4x, ◄◄ 8x, ◄◄ 16x, ◄◄ 32x) changes for every press of the ►► or ◄◄ button.

SKIPPING AHEAD OR BACK TO CHAPTERS

Skipping ahead

Press SKIP/ FRAME ▶▶ (Next) on the remote control or SKIP ▶▶ on the main unit during play.

A chapter is skipped forward each time the button is pressed.

Skipping back

Press SKIP/ FRAME ◀◀ (Previous) on the remote control or SKIP ◀◀ on the main unit during play.

When the button is pressed once midway through a chapter, play returns to the previous chapter.

STILL PICTURE (PAUSE)

Press PLAY/PAUSE once during play.

The screen suspends.

To return to normal play press PLAY/PAUSE again.

FRAME ADVANCE (STEP FORWARD)

Press PLAY/PAUSE once during play.

The screen suspends.

Press SKIP/ FRAME ▶▶ (Next) on the remote control or SKIP ▶▶ on the main unit.

The next frame of the movie is displayed.

You can press SKIP/ FRAME ▶▶ (Next) for the following frames.

FRAME BACK (STEP BACKWARD)

Press PLAY/PAUSE once during play.

The screen suspends.

Press SKIP/ FRAME ◀◀ (Previous) on the remote control or SKIP ◀◀ on the main unit.

The previous frame of the movie is displayed.

You can press SKIP/ FRAME ◀◀ (Previous) for the preceding frames.

SLOW- MOTION PLAY FORWARD

Press PLAY/PAUSE once during play.

The screen suspends.

Press SEARCH/SLOW ▶▶ on the remote control or Search ▶▶ on the main unit

The unit starts playing the movie at four different speeds (▶ 1/2, ▶ 1/4, ▶ 1/8, ▶ 1/16).

You can increase or decrease the speed of the slow-motion play by pressing SEARCH/SLOW ▶▶.

The speed of slow motion play is displayed on the screen each time you change it.

To return normal play press PLAY/PAUSE.

SLOW- MOTION PLAY BACKWARD

Press PLAY/PAUSE once during play.

The screen suspends.

Press SEARCH/SLOW ◀◀ on the remote control or Search ◀◀ on the main unit

The unit starts playing the movie at four different speeds (◀ 1/2, ◀ 1/4, ◀ 1/8, ◀ 1/16).

You can increase or decrease the speed of the slow-motion play by pressing SEARCH/SLOW ◀◀.

The speed of slow motion play is displayed on the screen each time you change it.

To return normal play press PLAY/PAUSE.

NOTE:

• The forward and backward slow-motion operations are not recursive. The sequence for the slow-motion is as follows:

(◀ 1/16, ◀ 1/8, ◀ 1/4, ◀ 1/2, PAUSE, ▶ 1/2, ▶ 1/4, ▶ 1/8, ▶ 1/16)

DIRECT SELECTION OF SCENES

Selecting Scenes by Chapter Number

Press SEARCH MODE on the remote control once during playback.

The chapter/title search box is displayed on the screen. You can see the currently playing and total number of chapters on right hand side of the display bar as — / xx.

Enter the number of the chapter using number buttons.

The selected chapter is played just after you enter the chapter number.

For your convenience:

• If the chapter number you entered is between 0 and 9, player will automatically jump to the related chapter. To enter a chapter number which is more than 1 digit, press **+10 KEY** and then enter the chapter number.

• You can clear the field by pressing the **C** button if you enter wrong number.

• If you attempt to enter a number greater than the total number of chapters on the current title, the search box disappears and "🚫" message is displayed on screen.

• If you wait five seconds without pressing any key for selecting scenes by chapter number, the operation is cancelled.

Selecting Scenes by Title Number

Press SEARCH MODE on the remote control once during playback.

The chapter/title search box is displayed on the screen. You can see the currently playing and total number of titles in left hand side of the display bar as   / xx.

Press ◀ (Left) or ▶ (Right) button on the remote control to select the title field in the search box to change the title.

You can see the currently playing title and total title numbers on the top-left side of the display as — / xx.

Enter the number of the title using number buttons.

The selected title is played just after you enter the title number.

For your convenience:

• Enter the title number between 0 and 9, your request will be acknowledged immediately without pressing any other key. To select a title number which is more than 1 digit, press **+10 KEY** and then enter the title number.

• You can clear the field by pressing the **C** button if you enter wrong number.

• If you attempt to enter a number greater than the total number of titles, the search box disappears, "🚫" message appears.

• If you wait five seconds without pressing any key for selecting scenes by title number, the operation is cancelled.

• You can press **RETURN** key to cancel title search.

Selecting Scenes by Time

You can view the DVD starting from any time point you want.

Press SEARCH MODE on the remote control " twice " during playback.

The time search box is displayed on the screen You can see the total runtime of the title on right side of the display bar as Title xx/xx Time: — : — : —

Enter the time using number buttons.

The title is played beginning from the desired time just after you enter the time. If not prohibited by the DVD.

Press SEARCH MODE on the remote control " third time " during playback.

The time search box is displayed on the screen. You can see the total runtime of the Chapter on right side of the display bar as Chapter xx/xx Time: — : — : —

Enter the time using number buttons.

The Chapter is played beginning from the desired time just after you enter the time. If not prohibited by the DVD.

For your convenience:

• You can clear the fields by pressing the **C** button if you enter wrong numbers.

• If you attempt to enter a number greater than the total time of the current title, the time search box disappears, "🚫" message is displayed on screen.

• If you wait five seconds without pressing any key to enter time, selecting scenes by time option is cancelled.

• You can press **RETURN** key to cancel time search.

REPEAT PLAY

Repeat Viewing

Press REPEAT during play.

Each time this button is pressed, a different repeat box is displayed on the screen.

• If "↻ CHAPTER" is displayed, the current chapter will be played again.

• If "↻ TITLE" is displayed, the current title will be played again.

• If "↻ ALL" is displayed, all titles and chapters will be played again.

NOTE:

Repeat play may be prohibited by some DVD titles.

Repeating sections between two specific points. (A-B repeat)

Press A-B during play at the point where repeat play is to commence (A).

"↻ A " is displayed.

Press A-B again at the point where repeat play is to be concluded (B).

"↻ AB " is displayed and the repeat play of the selection between points A and B starts, if not prohibited by the DVD.

To return to normal play

Press **A-B** again.

CONVENIENT FUNCTIONS

Displaying the time information

Press DISPLAY during PLAY.

During playback, each time this button is pressed, some information is displayed on TV screen to indicate the current status of the disc. On the display screen you can find the following information lines:

Line 1: Title & Chapter Numbers

Line 2: Audio Format, Number of Output Channels & Audio Language

Line 3: Subtitle Language Number & Subtitle Language

Line 4: Time Counter Mode & Time Counter

Time counter modes can be selected by pressing **DISPLAY** key consecutively.

First hit to **DISPLAY** key: Line 4 -> CHAPTER ELAPSED Mode

Second hit to **DISPLAY** key: Line 4 -> CHAPTER REMAIN Mode

Third hit to **DISPLAY** key: Line 4 -> TITLE ELAPSED Mode

Fourth hit to **DISPLAY** key: Line 4 -> TITLE REMAIN Mode

• If "Time Display: TITLE ELAPSED" is displayed, the elapsed time for the title is being displayed.

• If "Time Display: TITLE REMAIN" is displayed the remaining time for the title is being displayed.

• If "Time Display: CHAPTER ELAPSED" is displayed, the elapsed time for the chapter is being displayed.

• If "Time Display: CHAPTER REMAIN" is displayed, the remaining time for the chapter is being displayed.

Pressing the **DISPLAY** key for the fifth time closes display menu screen.

Displaying a scene with a larger and closer view

The 'zoom in' function enables you to take a closer look at the scene you are viewing that is especially a considerate function when you are seeing science fiction or adventure movie.

Press ZOOM during play.

" 2x" is displayed on the screen and the picture is now larger. By pressing **ZOOM** key consecutively you can reach " 3x", " 4x", " 1/2x", " 1/3x", " 1/4x" modes.

NOTE:

You can move in the picture i.e. change the zoomed location by using the ◄ (Left) / ▶ (Right) / ▼ (Down) / ▲ (Up) arrow keys.

To return to normal play

Press ZOOM again.

Displaying / Changing Subtitle Language

It is possible to change the subtitle language from the one selected at the initial settings to a different language, if available.

(This operation works only with discs on which multiple subtitle languages are recorded.)

Press SUBTITLE during play.

When no subtitles are recorded "🚫" will be displayed instead of the selected language.

Press SUBTITLE a number of times until the preferred language is selected.

When this button is pressed once, the first subtitle recorded on the disc will display. The rest of the subtitles recorded will display in sequence for every press of the **SUBTITLE** button.

NOTE:

In some cases, the subtitle language is not changed immediately to the selected one.

For your convenience:

• When the preferred language is not selected even after pressing the button several times, it means that the language is not available on the disc.

• When the player is restarted or the disc is changed, the subtitle selection is automatically changed back to the initial settings.

• If a language is selected, which is not supported by the disc, the subtitle language will automatically be set to the disc's priority language.

• Usually a circulation will happen while switching to another language, that is you can cancel the subtitle by pressing this button a number of times until "Subtitle Off" appears on the screen.

Changing Audio Soundtrack Language

It is possible to change the audio language from the one selected at the initial settings to a different language, if available.

(This operation works only with discs on which multiple audio soundtrack languages are recorded, if not prohibited by the DVD.)

Press AUDIO during play.

Press AUDIO a number of times until the preferred language is selected.

For your convenience:

• When the preferred language is not selected even after pressing the button several times, it means that the language is not available on the disc.

• When the power is turned on or the disc is removed, the language heard is the one selected at the initial settings. If this language is not recorded on the disc, only the available language on the disc will be heard.

Viewing From Another Angle

Some DVD discs may contain scenes, which have been shot simultaneously from a number of different angles. For these discs, the same scenes can be viewed from each of these different angles using the ANGLE button.

The number of recorded angles differs depending on the disc used.

"🎥 y/x" is displayed shortly on the screen during playback. This indicates that the multi-angle scene has just started. Also on unit's display 'ANGLE' message appears. From that moment on, the **y**th angle of total **x** angles is played and you can change the viewing angle until the end of the multi-angle scene.

NOTE:

• In **SETUP** menu, an 'ANGLE MARK' option exists, which, if enabled, will display a continuous angle mark on the screen as long as multi-angle scene is available.

Press ANGLE during play.

The current angle is changed.

Press ANGLE a number of times until the preferred viewing angle is selected.

NOTE:

• This function will only work on discs where different angles have been recorded.

• The viewing angles are shown on the screen. You can select one from them for viewing.

• If you press ANGLE outside of a multi-angle scene on a multi-angle title, you will see that "🚫" is displayed. This means that there are total **x** angles on that title and the **y**th angle has been selected to be played, when the multi-angle scene starts. "🚫" means that there is only one angle currently available.

USING A DVD MENU

Some DVD discs have unique menu structures called DVD menus. For example, DVDs programmed with complex contents provide guide menus, and those recorded with various languages provide menus for audio and subtitle language. Although the DVD menus' contents and operation differ from disc to disc, the following explains basic operation when this feature is used.

Press TITLE or MENU on the remote control or on your unit during play.

The DVD menu available on the disc is now displayed.

NOTE:

• If you press MENU, the root menu of DVD is displayed.

• If you press TITLE, the menu of the current title is displayed.

Press ◀ ▶ ▼ ▲ to select the preferred item.

Press SELECT

The selected item is now executed.

For your convenience:

• You can also use **number** keys to select a DVD menu item. The player will automatically execute the item. To enter an item number which is more than 1 digit, press **+10** key and then enter the item number.

NOTE:

• Some DVDs may not contain root and/or title menus.

• To resume the playback, select PLAY item in DVD menu.

VIDEO CD PLAYBACK*

Preparations

• Press on the power button of your audio system if the player has been connected to an audio system.

Basic Play

1. Press on the standby button

2. Press OPEN/CLOSE to open the disc tray.

3. Place a disc onto the tray

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press OPEN/CLOSE.

• For Video CDs without playback control:

The disc tray is closed and play commences

• For Video CDs provided with playback control:

A menu screen will appear on the screen after a few moments.

MENU PLAY

• This function works only with video CDs with playback control (version 2.0)

Follow the instructions on the menu screen for interactive operations.

• The details differ depending on the disc concerned. Also refer to the instructions accompanying the disc.

After steps 1 to 4 above the menus are displayed on the TV screen

5. Press the number button(s) to select the preferred item.

The player now starts to play the selected item.

NOTE:

• Use **+10** button to enter two-digit-numbers.

• ◀ ▶ ▼ ▲ arrow buttons are not used for selecting items for video CDs.

This feature is only available in some models

What is playback control?

If a video CD has "playback control" written on the jacket of disc, it means that particular scenes or information can be selected for viewing interactive with TV screen using the menu screen.

NOTE:

• **TITLE** button is dedicated to PBC "playback control" during VCD* playback. You can change PBC mode with **TITLE** button.

• For using Repeat Modes you need to switch off PBC manually.

• If you use Search mode PBC automatically switches to OFF.

• PBC ON is default. Whenever you open the tray it will be ON.

When the menu continues onto another screen

After step 4, press **SKIP NEXT** ⏭️.

• To return to the previous menu screen press **SKIP PREV** ⏮️

Stopping play and returning to the menu screen (when a menu is available on the disc)

Press **STOP**. Play is suspended, and the disc menu screen is displayed.

After operation

When the unit is not in use, remove the disc and press STANDBY to turn off the unit.

NOTE:

• The disc continues to rotate while the menu is displayed even after the player has finished playing a particular item. When no further selections are to be played, be sure to press the STOP button to clear the menu display.

• If the disc is placed upside down (and it is a single sided disc), the VFD display on the player will indicate NO DISC.

For your reference:

• When "🚫" symbol appears while a button is being operated on up-left corner of OSD, it means that the player prohibits the corresponding operation.

Stopping Play

Press stop twice.

For your convenience:

• When **STOP** is pressed once, while the play continues, the unit records the point where the play stopped and if the **PLAY** key is pressed, play resumes from the point where **STOP** key was pressed. Press **PLAY / PAUSE** again, and play will resume from this point. When the tray is opened or the **STOP** is pressed again, the resume function will be cleared.

• To stop the play permanently, press **STOP** twice. When the **STOP** button is pressed for the first time, a message "PRESS PLAY TO CONTINUE" will appear on the screen to remind you if you want to continue the play. To stop the play, press the **STOP** button again or you can press **PLAY/ PAUSE** to continue.

RAPID ADVANCE / RAPID REVERSE

Press SEARCH/SLOW (⏪ Fast reverse or ⏩ Fast forward) on the remote control or Search ⏪ or ⏩ on the main unit during play.

• Normal play is resumed when the **PLAY/PAUSE** button is pressed.

• The speed of advance (⏩ 2x, ⏩ 4x, ⏩ 8x, ⏩ 16x, ⏩ 32x) or reverse (⏪2x, ⏪4x, ⏪8x, ⏪16x, ⏪32x) changes for every press of the ⏩ or ⏪ button.

Note:

No sound will be heard during Rapid advance or Rapid reverse.

SKIPPING AHEAD OR BACK TO CHAPTERS

Skipping ahead

Press SKIP/ FRAME ▶▶ (Next) on the remote control or SKIP ▶▶ on the main unit during play.

A track is skipped each time the button is pressed.

Skipping back

Press SKIP/ FRAME ◀◀ (Previous) on the remote control or SKIP ◀◀ on the main unit during play.

When the button is pressed once midway through a track, play returns to the start of previous track. When it is pressed again, a track is skipped.

STILL PICTURE (PAUSE)

Press PLAY/PAUSE once during play.

The screen suspends.

To return to normal play press PLAY/PAUSE again.

FRAME ADVANCE (STEP)

Press PLAY/PAUSE once during play.

The screen suspends.

Press SKIP/ FRAME ▶▶ (Next) on the remote control or SKIP ▶▶ on the main unit.

The next frame of the movie is displayed.

You can press SKIP/ FRAME ▶▶ (Next) for the following frames.

NOTE:

Reverse stepping is not available.

SLOW- MOTION PLAY

Press PLAY/PAUSE once during play.

The screen suspends.

Press SEARCH/SLOW ▶▶ on the remote control or Search ▶▶ on the main unit

You can increase or decrease the speed of the slow-motion play by pressing SEARCH/SLOW ▶▶ or ◀◀. There are 4 slow motion modes as ▶1/ 16, ▶1/8, ▶1/4, ▶1/2.

The speed of slow motion play is displayed on the screen each time you change it.

To return normal play press PLAY/PAUSE again.

NOTE:

Reverse slow motion play is not available.

DIRECT SELECTION OF SCENES

Selecting Scenes by Time

You can view the video CD, starting from any time point you want.

Press SEARCH MODE on the remote control once time during playback.

The time search box is displayed on the screen as DISC GOTO:_: _ _ : _ _

Player goes to entered time of the disc.

Press SEARCH MODE on the remote control two times during playback.

The time search box is displayed on the screen as TRACK GOTO:_: _ _ : _ _

Player goes to entered time of the current track.

Press SEARCH MODE on the remote control three times during playback.

The time search box is displayed on the screen as SELECT TRACK :_ _ / _ _

Player goes to entered track of the disc.

Enter the time using number buttons.

The title is played beginning from the desired time just after you enter the time.

For your convenience:

• If you attempt to enter a number greater than the total time of the current title, the time search box disappears and "🚫" message appears on up-left corner of screen.

• If you give up entering the time simply press RETURN button, and the operation is cancelled.

Accessing tracks using number buttons:

You can play any track you want, just by pressing the corresponding number button.

For the track numbers which are greater than "9" use +10 button. Press this button once and then type the two digit track number.

If you attempt to enter a number greater than the total number of tracks on disc, "🚫" message is displayed on the screen.

REPEAT PLAY

Repeat Viewing

Press REPEAT during play.

Each time this button is pressed, a different repeat box is displayed on the screen.

• If "🔁All" is displayed, the whole disc will be played again.

• If "🔁 Track" is displayed, the current track will be played again.

Repeating sections between two specific points. (A –B repeat)

Press A-B during play at the point where repeat play is to commence (A).

"🔁 A" is displayed on screen.

Press A-B again at the point where repeat play is to be concluded (B).

"🔁 AB" is displayed and the repeat-play of the selection between points A and B starts.

To return to normal play

Press **A-B** again. A–B Repeat is disabled.

CONVENIENT FUNCTIONS

Displaying the time information

Press DISPLAY during play.

Each time this button is pressed, a different time information box is displayed on the screen.

• If "Single elapsed" is displayed, the VFD display on the unit shows the elapsed time for the title which is being played

• If "Single remain" is displayed, the VFD display on the unit shows the remaining time for the title which is being played.

• If "Total Elapsed" is displayed, the elapsed time for the disc is being displayed.

• If "Total remain" is displayed the remaining time for the disc is being displayed.

Pressing the DISPLAY key for the fifth time closes display menu screen.

Displaying a scene with a larger and closer view

This 'zoom-in' function enables you to take a closer look at the scene you are viewing. This is especially a considerate function when you are watching science fiction or adventure movie.

Press ZOOM during play.

"Zoom On" is displayed on the screen and the picture is now larger. You can change the zooming ratio by pressing ZOOM button more

than once. There are 🔳 2, 🔳 3, 🔳 4, 🔳 1/2, 🔳 1/3 and 🔳 1/4 zoom

modes.

NOTE:

You can move in the picture ie, change the zoomed location by using the ◀ ▶ ▼ ▲ arrow keys. This is valid for zoom-in only.

To return to normal play

After zoom ratio is 1/4x, press ZOOM again. The picture is now in its normal size.

AUDIO CD PLAYBACK

Preparations

• Press on the power button of your audio system if the player has been connected to an audio system.

Basic Play

1. Press on the standby button

2. Press OPEN/CLOSE to open the disc tray.

3. Place a disc onto the tray

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press OPEN/CLOSE.

Play is commenced.

After operation

When the unit is not in use, remove the disc and press STANDBY to turn the unit off.

NOTE:

If the disc is placed upside down (and it is a single sided disc), the VFD display on the player will indicate NO DISC.

For your reference:

• When "🚫" symbol appears while a button is being operated, it means that the player prohibits the corresponding operation.

Stopping Play

Press stop twice.

For your convenience:

• When **STOP** is pressed once, while the play continues, the unit records the point where the play stopped and if the **PLAY** key is pressed, play resumes from the point where **STOP** key was pressed. Press **PLAY / PAUSE** again, and play will resume from this point. When the tray is opened or the **STOP** is pressed again, the RESUME function will be cleared.

• To stop the play permanently, press **STOP** twice. When the **STOP** button is pressed for the first time, a message "PRESS SELECT TO CONTINUE" will appear on the screen to remind you if you want to continue the play. To stop the play, press the **STOP** button again or you can press **PLAY/ PAUSE** to continue.

RAPID ADVANCE / RAPID REVERSE

Press SEARCH/SLOW (◀◀ Fast reverse or ▶▶ Fast forward) on the remote control or Search ▶▶ or ◀◀ on the main unit during play.

• The speed of advance (▶▶ 2x, ▶▶ 4x, ▶▶ 8x, ▶▶ 16x, ▶▶ 32x) or reverse (◀◀ 2x, ◀◀ 4x, ◀◀ 8x, ◀◀ 16x, ◀◀ 32x) changes for every press of the ▶▶ or ◀◀ button. You can also resume normal play using these buttons.

• Normal play is resumed when the SELECT button is pressed or PLAY/PAUSE button is pressed again.

NOTE:

No sound will be heard during rapid advance or rapid reverse.

Skipping Ahead or Back to Tracks

Skipping ahead

Press SKIP/ FRAME ▶▶ (Next) on the remote control or SKIP ▶▶ on the main unit during play.

A track is skipped each time the button is pressed.

Skipping back

Press SKIP/ FRAME ◀◀ (Previous) on the remote control or SKIP ◀◀ on the main unit during play.

When it is pressed again, a track is skipped.

PAUSE

Press PLAY/PAUSE once during play.

The play suspends.

To return to normal play press PLAY/PAUSE again.

DIRECT SELECTION OF TRACKS

Selecting by Time

You can play the audio CD starting from any time point you want.

Press SEARCH MODE on the remote control once time during playback.

The time search box is displayed on the screen as DISC GOTO:_: _ _ : _ _

Player goes to entered time of the disc.

Press SEARCH MODE on the remote control two times during playback.

The time search box is displayed on the screen as TRACK GOTO:_: _ _ : _ _

Player goes to entered time of the current track.

Press SEARCH MODE on the remote control three times during playback.

The time search box is displayed on the screen as SELECT TRACK :_ _ / _ _

Player goes to entered track of the disc.

Enter the time using number buttons.

The track is played beginning from the desired time just after you enter the time.

For your convenience:

• If you attempt to enter a number greater than the total time of the current track, the time search box disappears and " 🚫 " symbol is displayed.

• If you give up entering the time simply press RETURN button, and the operation is cancelled.

Accessing tracks using number buttons

You can play any track you want, just by pressing the corresponding number button.

For the track numbers which are greater than "9" use +10 button. Press this button once and then type the two-digit track number.

If you attempt to enter a number greater than the total number of tracks on disc, " 🚫 " symbol is displayed on screen.

REPEAT PLAY

Press REPEAT during play.

Each time this button is pressed, a different repeat box is displayed on the screen.

• If "🔄 Track" is displayed, the current track will be played again.

• If "🔄 All" is displayed, the whole disc will be played again.

• If "SCAN" is displayed, first 12 seconds of all tracks on the disc are played sequentially.

• If "RANDOM" is displayed, tracks on the disc are played randomly and continously.

NOTE:

If the play list is active, the playlist is repeated instead of the whole disc in "Repeat All" case.

Repeating sections between two specific points (A –B repeat).

Press A-B during play at the point where repeat play is to commence (A).

"🔄 A" is displayed.

Press A-B again at the point where repeat play is to be concluded (B).

"🔄 AB" is displayed and the repeat-play of the selection between points A and B starts.

To return to normal play

Press **A-B** again. A-B Repeat is disabled.

CONVENIENT FUNCTIONS

Displaying the time information

Press DISPLAY during play.

Each time this button is pressed, an information box is displayed on TV screen to indicate the status of the time displayed on the VFD display.

• If "Time Display: Single elapsed" is displayed, the VFD display on the unit shows the elapsed time for the track which is being played.

• If "Time Display: Single remain" is displayed, the VFD display on the unit shows the remaining time for the track which is being played.

• If "Time Display: Total elapsed" is displayed, the VFD display on the unit shows the elapsed time for the disc which is being played.

• If "Time Display: Total remain" is displayed, the VFD display on the unit shows the remaining time for the disc which is being played.

Program Function

Press PROGRAM to select program mode

Program list appears.

Enter numbers of tracks that you want to add to program list.

Select "NEXT" to go to the next program page.

Select "PREV" to go to the previous program page.

Select "START" to start program mode.

Screen is cleared and files in the program list are played sequentially.

Press PROGRAM to see the program list.

Select "STOP" to stop program mode.

Select "EXIT" to stop program mode.

For your convenience:

• You can remove the last track of the playlist by pressing the **C** button.

• You can clear screen when the program list is displayed on screen by pressing PROGRAM button.

• The program remains even after the Program Play ends

• The program is cancelled when:

- The disc tray is opened or closed

- The power is turned off.

CD MENU

To see the directory structure(menu) of JPEG/MP3 CDs you should set CD MENU option to WITH MENU in setup page.
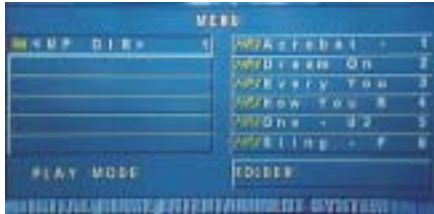
If CD MENU option is set to NO MENU, MP3 or JPEG content is automatically played without displaying menu.

BASIC PLAY

1. Press on the STANDBY

2. Press OPEN/CLOSE to open the disc tray

3. Place a CD-R disc onto the tray

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press OPEN/CLOSE to close the disc tray

DISC LOADING message appears on screen. Please wait for a moment.

CD MENU appears. Directories are on the left part and files in the selected directory are on the right part.

5. Press UP/DOWN to select files

In the stop mode or while playing MP3 the user can navigate in the current directory.

6. Press SELECT,LEFT,RIGHT to switch between directories & files

On the right part:

Press LEFT to switch to directories.

On the left part :

Press RIGHT to switch to files. Selected directory content is displayed on the left after reading directory.

NOTE:

you can use ▶▶ and ◀◀ buttons for page up / down in file list.

7. Press SELECT on a file to play

MP3 File :

Selected MP3 starts to play.

Elapsed or Remaining Time is displayed according to DISPLAY Mode.

JPEG File :

Selected JPEG is displayed in full screen.

Slide Show starts automatically.

PAUSE

Press PLAY/PAUSE once during play.

The play suspends. PAUSE message appears on screen.

To return to normal play press PLAY/PAUSE again.

STOPPING PLAY

Press STOP

The play is stopped.

Rapid Advance / Rapid Reverse

Only for MP3 :

Press ◀◀ / ▶▶ during play to decrease/increase play speed.

◀◀ 32x, ◀◀16x, ◀◀ 8x, ◀◀ 4x, ◀◀ 2x, PLAY, ▶▶ 2x, ▶▶ 4x, ▶▶ 8x, ▶▶ 16x, ▶▶ 32x are the play speed modes.

SKIPPING AHEAD OR BACK TO TRACKS

Press ◀◀ / ▶▶ during play to jump to the previous/next file.

Next file in the current directory will be played.

IMAGE TRANSFORMATION

Only for JPEG :

Press PLAY to start slide show

There are four modes of transformation:

• Invert

• Mirror

• Left

• Right

These operations are allowed only when a picture is being displayed normally, and will be cancelled automatically when a new picture is displayed. The arrow keys are used to select different transformation modes.

Press UP to invert/normal

Press DOWN to mirror/normal

Press LEFT to turn left

Press RIGHT to turn right

ZOOM

Only for JPEG :

Press PLAY to start slide show

It is provided both ZOOM in/out and Zoom pan functions for JPEG pictures.

Press ZOOM to turn on/off this function

When this mode is on, any picture will be displayed at the last ratio selected by the user.

A message will indicate the current ratio on screen.

If zoom mode is on,

Press ▶▶ / ◀◀ to control the ratio of zoom in/out.

The zoom ratios are %50 and %75 for zoom out and %100, %125, %150 and %200 for zoom in. (The order is: %50, %75, %100, %125, %150, %200)

With ZOOM mode off, a picture is scaled to fit the whole screen.

NOTE:

• During ZOOM function, slideshow transition and image transformation are disabled.

DIGEST MODE

Only for JPEG :

Press PLAY to start slide show

press **STOP** button during JPEG slide show. Unit goes into digest mode. 12 pictures are displayed on screen.

Using the arrow keys select menu icon on the screen. Press select button.

Remote key Function screen appears. You can see help information for digest mode.

Program key

Each time you press program key transition effect is changed. You can select one of the following transition effects: Wipe top, Wipe bottom, Wipe left, Wipe right, Diagonal wipe left top, Diagonal wipe right top, Diagonal wipe left bottom, Diagonal wipe right bottom, Extend form center H, Extend from center V, Compress to center H, Compress to center V, Window H, Window V, Wipe from edge to center, Random, None.

Press "Skip frame ▶▶ (next) key".

Next 12 pictures are displayed.

Press "Skip frame ◀◀ (previous) key".

Previous 12 pictures are displayed.

Press Menu key to cancel the digest mode.

Search Mode

With SEARCH MODE key you can select the files in the current folder or you can perform time search in currently playing MP3 file.

Repeat Modes

In CD MENU it is displayed at the bottom.

Display Function

Press **DISPLAY** to change displayed time mode

There are two time modes :

• Single Elapsed

• Single Remain

Time is displayed only during MP3 playback.

Play Modes

1. Press **STOP.**

2. Press **RIGHT** to go to Play Modes menu.

3. Press **UP/DOWN** to change play mode.

The options available are:

REPEAT ONE:

If this option is chosen, the selected track will be repeated continuously.

REPEAT FOLDER:

If this option is chosen, the selected folder will be repeated continuously.

DISC:

When this Play mode is selected, the disc will be played once.

DISC REPEAT:

When this Play mode is selected, the disc will be played continuously.

DISC SCAN:

When this Play mode is selected, the first 12 seconds of all tracks disc will be played.

FOLDER:

When this Play mode is selected, the current folder will be played once.

PROGRAM FUNCTION

Press PROGRAM to select program mode in stop mode

PROGRAM LIST Message appears.

Press UP/DOWN keys to select files in the disc.

Press LEFT/RIGHT to change column.

Press SELECT to add selected file into the program list.

Choose any file from the program list and use PLAY or SELECT keys to start the program.
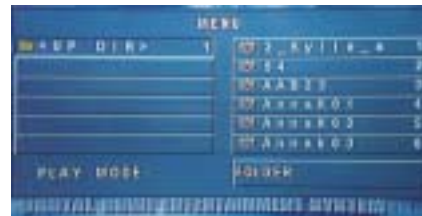
Files in the program list are played sequentially.

If a MP3 file is played;

Press STOP.

If a JPEG file is displayed;

Press MENU.

Press PROGRAM to quit program mode.

"NORMAL MODE" message appears.

For your convenience:

• You can remove the last track of the playlist by pressing the **C** button.

• The program remains even after the Program Play ends

• The program is cancelled when:

- The disc tray is opened or closed

- The power is turned off.

USING SETUP MENU

Press SETUP button on the remote control.

The setup menu-main page appears. This is the menu, where you can change the device's settings.

<u>USING MAIN PAGE</u>

Select items using ▼ ▲ v up/down arrow buttons.

When selected, the item will be highlighted.

Press SELECT to enter the submenu for highlighted item.

The submenu for the selected item appears on the screen.

Note: To close the setup menu, select EXIT SETUP and press SELECT, or press SETUP.

<u>USING SUB MENUS</u>

Once you enter any submenu,

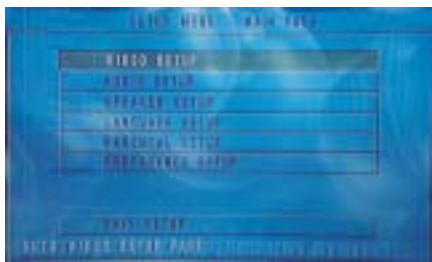**Use ▼ ▲ up/down arrow buttons to move the highlighted position up and down.**

Use ◀ ▶ left/right arrow buttons to switch between left and right menus.

Press SELECT to choose the highlighted option on the right menu.

• Some items on Setup Menu will only be available when the player is not playing a disc.

In Play or (Pre-Stop) mode, some pages and some items can not be accessed. On the MAIN page, you can not access VIDEO SETUP and PARENTAL SETUP pages in RESUME mode.

Note:

• In any submenu, to return to main page, select MAIN PAGE and press **SELECT** button.

• To close the setup menu, press **SETUP.**

MENU ITEMS

VIDEO SETUP

• VIDEO SETUP page will not be available if the player is Play or (Pre-Stop) mode.

TV DISPLAY

The aspect ratio of the picture provided by the DVD player can be varied in line with the features available on the TV in use.

The options available are:

Normal/PS Pan & Scan (4x3)

Allows the movie to fill the entire screen of your TV, but not the right and left edges.

Normal/LB   Letterbox (4x3)

Allows you to see movies in their original aspect ratio. You will see the entire frame of the movie, but it will occupy a smaller portion of the screen.

Wide   Widescreen (16x9)

Choose this setting if your DVD player is connected to a widescreen TV.

Please Note:

Depending on the format of the DVD disc, e.g. 2.35:1 the picture may still have black lines above and below the picture.

TV TYPE

The video standard of the DVD player output can be selected from 'MULTI', 'NTSC' or 'PAL'.

If 'MULTI' is selected, the output standard will be either NTSC or PAL depending on the DVD being played.

If 'PAL' is selected, the video output will be converted to PAL standard irrespective of disc standard.

VIDEO OUTPUT

The video output of the DVD player can be selected as 'S-VIDEO' or 'RGB'.

If 'S-VIDEO' is selected, RGB output via scart will be disabled, only CVBS will be active via Scart. S-Video output will be active via MiniDIN connector. After switching to S-Video, TV should be switched to S-Video input with TV remote control. If "S-Video" is selected in order to disable RGB via Scart and user prefers to watch CVBS via scart, TV should be switched to Scart input with TV remote control.

If 'RGB' is selected, S-Video output will be disabled. Scart output will be CVBS + RGB.

AUDIO SETUP

DOWNMIX MODE
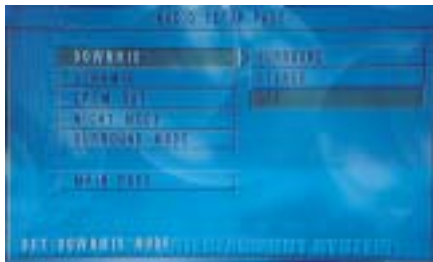
This mode allows the DVD player analog audio outputs to be matched to the features available on the TV in use. Analog audio outputs can be selected as

SURROUND: Surround sound output.

STEREO: Two channels stereo.

Use this option if you have a stereo TV or a stereo HI-FI system.

OFF: Downmix mode off. Multichannel analog audio is available.

Do not use this option if your DVD player is not connected to a multichannel TV or multichannel AV receiver. It is particularly important not to enable speakers, which are not present. Otherwise serious sound quality problems may occur..

NOTE:

If downmix mode is enabled, that is, one of SURROUND, STEREO or V SURR options are selected, SPEAKER page in setup menu will be disabled since this page contains speaker settings related with multi-channel audio out. If you disable DOWNMIX mode, speaker page will be activated again.

DYNAMIC (DYNAMIC RANGE COMPRESSION)

Boosts frequency response. This item can be selected between "OFF" and "FULL".

LPCM OUTPUT

This item can be selected as "LPCM 96K" or "LPCM 48K".
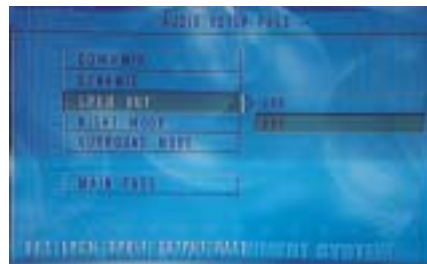
NIGHT MODE

This item allows you to enable/disable the night time listening mode.

In night time listening mode high volume levels are limited.

SURROUND MODE

This mode allows to activate the speakers beyond the left/right with two channel input.

Matrix: Six channel output with surround effect.

PL2 Music: Dolby Prologic II music mode.

PL2 Movie: Dolby Prologic II movie mode.

Off: Surround mode off.

NOTE:

Matrix and Pro Logic modes can be enabled only if the downmix mode is off.

SPEAKER SETUP

CENTER

This item allows you to enable/disable the CENTER speaker.

REAR

This item allows you to enable/disable the REAR (Left surround, right surround) speakers.

SUBWOOFER

You can enable/disable the subwoofer by changing the option to ON/OFF.

CENTER DELAY

Center speaker surround time delay. You can adjust the delay times or you can disable delay for center speaker.

REAR DELAY

You can adjust the delays of rear speakers or you can disable delay for rear speakers.

TEST TONE

You can test all your speakers using test tone function. A noise signal will be sent to all speakers one by one.

LANGUAGE SETUP

OSD LANG

You can select the default OSD language of the player menus.

AUDIO

You can select the default audio language if supported by the DVD disc.
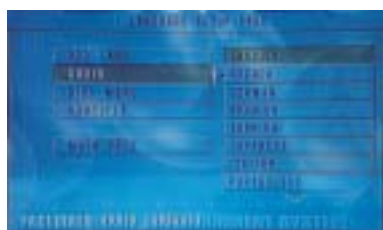
DISC MENU

You can select the DVD's disc menu language among these languages. Disc menu appears in the selected language, if supported by the DVD disc.

SUBTITLE

You can select the default subtitle language if supported by the DVD disc.

PARENTAL SETUP

Playing some DVDs can be limited depending on the age of users. The "Parental Control" function allows playback limitation level to be set by the parent.
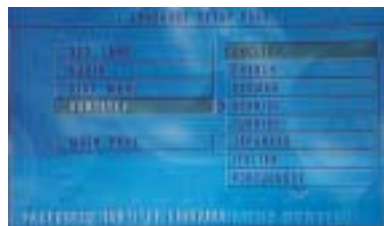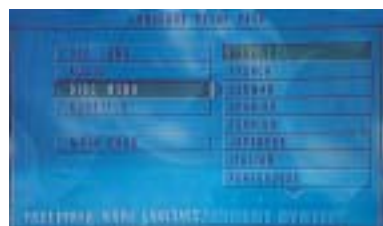
PARENTAL (PARENTAL LEVEL)

Parental Level can be adjusted to one of the eight levels. Level "8 ADULT" adjustment let you watch all of the DVD titles ignoring the DVD disc's parental level. You can watch the DVD discs, which has the same or lower parental level than the player's level only.

PASSWORD

Password to change the parental level can be set by using this option. Factory preset of the password is "0000"

You have to enter XXXX digital password every time you want to change the parental level. If you forget your password please contact technical service.

CHANGE PASSWORD

Using this item you can change the current password.

To change the password you will be prompted to enter your old password. After you have entered your old password, you can now enter the new 4-digit password.

Entering the new password once is not enough, it should also be confirmed. Confirm pwd box is for confirming new password.

Press select to move to confirm password box.

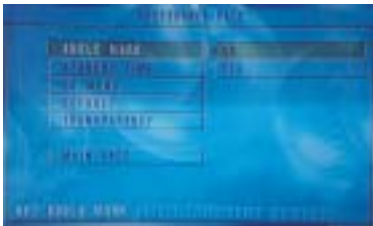• You can use **C** key to delete the incorrect entry.

PREFERENCES

CD MENU

This option allows you to enable or disable the CD MENU which is used for playing MP3 or JPEG CDs.

ANGLE MARK

This option allows you to turn on /off the angle mark on the screen, which is displayed to indicate that a multi angle scene has started. It also shows which angle you are currently watching.

DEFAULT

If you choose **RESET** and press **SELECT**, the factory-presets are loaded. Parental level and parental password does not change.

STANDBY

Standby activation feature can be disabled or standby activation time can be adjusted using this option. If one of the time options is selected, standby is activated, whenever no key is pressed for the selected time duration in stop mode.

TRANSPARENCY

Using this option one of four transparency levels can be selected for the on screen display.

TROUBLESHOOTING

The picture quality is poor (DVD)
- Make sure the disc surface is not damaged. (Scratch, fingerprint etc.)
- Clean the disc and try again.
  - -See instructions described in page 6 to clean your disc properly.
- Ensure that the disc is in the drawer with the label uppermost.
- A damp disc or condensation may effect the equipment. Wait for 1 to 2 hours in Stand-by to dry the equipment.

Disc does not play
- No disc in the machine.
  - -Place a disc onto the tray.
- Disc incorrectly loaded.
  - -Ensure that the disc is in the drawer with the label uppermost.
- Wrong type of disc.
  - -Use disc in supported formats described in page 2.
- The region code of the disc must match the one of the player.

Wrong OSD language
- Select the language in the set-up menu.

The language for the sound or subtitles on a DVD cannot be changed.
- Multilingual sound and/or subtitles not recorded on the disc.
- Try to change the sound or subtitles using discs title menu. Some discs do not allow the user to change these settings without using the disc's menu

Some functions (Angle, Zoom etc) do not work
- These functions are not available on the disc.
- Angle can only be changed when the angle symbol is displayed.

No picture
- Check that the player is connected to TV properly and that all connections between the DVD player and other attached equipment are secure.
- Have you pressed the correct buttons on the remote control? Try once more.

No sound
- Check the volume is set to an audible level.
- Make sure you have not switched the sound off accidentally.

Distorted sound
- Check that the appropriate listening mode setting is correct.

5.1 Audio is not available
- Make sure that Disk contains 5.1 Audio and it is selected
- Make sure that in Audio Setup, Downmix mode is OFF.
- Check that speakers are on in Speaker Setup in Audio Setup.
- Make sure that you connected the speakers correctly.

No response from remote control
- Make sure the remote control is in the correct mode.
- Check batteries are fitted correctly.
- Change the batteries.

If nothing works
If you have tried the above solutions and none seem to work, try switching your DVD player off and on again. If this does not work, contact your supplier or DVD player repair technician.
Never attempt to repair a defective DVD player yourself.

SPECIFICATIONS

DVD / VIDEO CD* / CD player/ Radio / Amplifier

Power Requirements	220 240 ~50 Hz Max.135Watt Auto Adjustable

Types of Discs Supported	**DVD**: SS/SL 4.7" (DVD-5)
	          SS/DL 4.7" (DVD-9)
	          DS/SL 4.7" (DVD-10)
	          DS/DL 4.7" (DVD-18)
	VCD*
	CD-DA
	CD-R
	CD-RW
	MP-3
	JPEG

Video Type	MPEG-2 Video Standard Decoding (MPEG-1 supported) Full-Screen Video Display of 720 x 576 (PAL) & 720 x 480 (NTSC) pixel 50 and 60 Hz frame refresh rates (PAL & NTSC) Digital bit-stream processing rate up to 108Mbits/sec Line resolution more than 500 lines
Video Input (Optional)	**Analog Video** **CVBS** : PAL / NTSC (Negative synchronised), 1Vpp @ 75Ω (loaded) **RGB + CVBS** : Through Full Euroscart input

Video Output	**Analog Video**: (With using 4 x 10-bits / 27MHz video DACs)
	CVBS : PAL / NTSC (Negative synchronised), 1Vpp @ 75Ω (loaded)
	S-VIDEO : Y Output : 1Vpp @ 75Ω (loaded),
	          C Output : 286 mVpp @ 75Ω (loaded) (NTSC)
	                    300 mVpp @ 75Ω (loaded) (PAL)
	          Through 4-pin MiniDIN S-VIDEO connector
	or
	RGB + CVBS : Through Full Euroscart Output (Pin-8 Control)

Audio Type	Dolby Digital Decoding MPEG Multichannel Decoding LPCM DTS Decoding (Optional)
Audio Output	**Analog Outputs:** 24 Bit/ 96, 48, 44 1kHz down-sampling DAC **2** RCA jack outputs (Left / Right) Left / Right audio outputs of Full Euroscart **Output / Channel:** 2 Vrms (0 dB fs, 1kHz)
Audio Inputs	SCART (Left and Right audio inputs of Full Euroscart) 2 RCA jack inputs (Left / Right)
Digital Audio Output (Optional)	SPDIF Optical and Coaxial
Power amplifier	**Output power:** 20W RMS at 10% THD x 5 for front, rear and center speakers, 35W RMS at 10% THD for Subwoofer
Tuner section	**[FM]** (75 ohms) **Receiving Range:** 87.50 MHz ~ 108 MHz **[AM] :** (18uH ,50 Ohms) **Receiving Range:** 522 kHz ~ 1620 kHz
Dimensions	420 mm(W) x 60 mm(H) x 365 mm(D)

This feature is only available in some models

DEFINITION OF TERMS

Angle

Recorded onto some DVD's are scenes, which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left side, from the right side, etc.). With such discs, the ANGLE button can be used to view the scene from different angles.

Chapter Number

These numbers are recorded on DVD's. A title is subdivided into many sections, each of which are numbered, and specific parts of video presentations can be searched quickly using these numbers.

DVD

This refers to a high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG II) and high-density recording technology. DVD enables aesthetically pleasing full-motion video to be recorded over long periods of time (for instance, a whole movie can be recorded).

DVD has a structure consisting of two 0.6-mm thin discs, which are adhered to each other. Since the thinner the disc, the higher the density at which the information can be recorded, a DVD has a greater capacity than a single 1,2 mm thick disc. Since the two thin discs are adhered to each other, there is the potential to achieve double-sided play sometime in the future for even longer duration play.

Playback Control

This is recorded on a Video CD* (Version 2.0). The scenes or information to be viewed (or listened to) can be selected interactively with the TV monitor by looking at the menu shown on the TV monitor.

Subtitles

These are printed lines appearing at the bottom of the screen, which translate or transcribe the dialogue. They are recorded on the DVD's.

Time Number

This indicates the playtime, which has elapsed from the start of a disc or a title. It can be used to find a specific scene quickly. (Not all discs permit the time search feature to be used. Availability is determined by the disc's manufacturer.)

Title Number

These numbers are recorded on DVD. When a disc contains two or more movies, these movies are numbered as title 1, title 2, etc.

Track Number

These numbers are assigned to the tracks, which are recorded on AudioCDs. They enable specific tracks to be located quickly.

Video CD*

This contains recordings of pictures and sound whose quality is on a par with that of videotape. This player also supports Video CDs with playback control (Version 2.0).

Dolby Digital

Many movie theatres are equipped with 5.1 channel surround systems. This same type of technology is available to you in your home. To enjoy full 5.1-channel surround, your DVD player must be connected to an external Dolby Digital decoder via the digital outputs (either coaxial or optical).

Dolby Pro Logic

This is Dolby Laboratories' technology to decode Dolby Surround encoded programs actively. Dolby Surround programs have four channels of audio (Left, Center, Right and Surround) encoded into a standard 2-channel stereo signal. The rear channel is monaural.

PCM

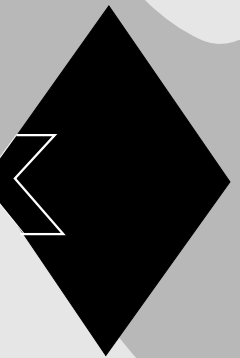PCM stands for Pulse Code Modulation and is digital audio.

MPEG

Short for Moving Picture Experts Group. This is an international standard for compression of moving images. On some DVDs digital audio has been compressed and recorded in this format.

This feature is only available in some models

black
DIAMOND